

Sunday, June 23

Registration

14:00 – 20:00

Welcome reception

18:30 – 20:00

Monday, June 24

Registration
8:30 – 12:00

Panorama Hall

8:45

Opening and Welcome address

9:00

INVITED KN 1 : ADSORPTION OF PROTEINS STUDIED BY DROP AND BUBBLE PROFILE ANALYSIS TENSOMETRY
REINHARD MILLER, MPI COLLOIDS AND INTERFACES, POTSDAM, GERMANY
Chair: Elena Mileva

Panorama Hall

Esplanade Hall

S1. Bubbles, Drops, Interfaces
Chair: Elena Mileva

S3. Formulations and Innovations for industrial applications
Chair: Alain Cagna

9:40

O1:1: Entrapment and mobility of fine particles at an air/water interface
Milad Eftekhari, Germany

O3:1: Thin liquid films formed by colliding air bubble at solution/air interface
Vamseekrishna Ulaganathan, Australia

10:00

O1:2: Measuring the energetic barrier for desorption of fatty alcohols from water surface
Ivan Minkov, Bulgaria

O3:2: Effect of pH on the adsorption of two-antennary oligoglycines at air/solution boundary and their supramolecular assembly in aqueous bulk
Dimitrinka Arabadzhieva, Bulgaria

10:20

O1:3: Surface properties of adsorption films of silica nanoparticles and globular proteins
Olga Milyaeva, Russia

O3:3: Build-up and elastic modulus of PEM films at solid and liquid interfaces
Jessie Webber, Australia

10:40

Coffee

Panorama Hall

Esplanade Hall

S1. Bubbles, Drops, Interfaces
Chair: Libero Liggieri

S3. Formulations and Innovations for industrial applications
Chair: Jan Zawala

11:10

KN 1: Dynamic surface properties of protein/surfactant solutions
Boris A. Noskov, Russia

KN 2: Interfacial tension and dilational rheology of blood proteins and blood serum aqueous solutions at the interface with silicone oils for ophthalmic surgery
Francesca Ravera, Italy

11:40

O1:4: Self-propelled droplet transport on shaped - liquid surfaces
Gary Wells, United Kingdom

O3:4: Effect of the length of oligoglycine portion of two-antennary oligoglycines on their bulk self-assembly and the adsorption at the air/solution interface
Anna Gyurova, Bulgaria

12:00

O1:5: Trace amounts of highly surface-active impurity affect the repeatability of dynamic surface tension measurement using the pendant droplet method
Paul Stevenson, United Kingdom

O3:5: Degassing of a liquid jet under various gravitational accelerations
Ourania Oikonomidou, Greece

12:20

Lunch

Panorama Hall

14:00

INVITED KN 2 : INTERACTIONS OF WET FOAMS WITH POROUS MATERIALS
ANNA TRYBALA, LOUGHBOROUGH UNIVERSITY, LOUGHBOROUGH, UK
Chair: Reinhard Miller

Panorama Hall

Esplanade Hall

S1. Bubbles, Drops, Interfaces
Chair: Reinhard Miller

S3. Formulations and Innovations for industrial applications
Chair: Theodor Gurkov

14:40

O1:6: Bioinspired super-repellent metallic surfaces for dropwise condensation
Daniel Orejon, United Kingdom

O3:6: Revealing foam-fibre interactions in the production of lightweight materials: captive bubble study with model silica and cellulose surfaces
Annika Ketola, Finland

15:00

O1:7: Pinning-Free evaporation of sessile droplets of water from solid surfaces
Steven Armstrong, United Kingdom

O3:7: Relating foam stability, foam structure dynamics, foaming gas type, and interfacial rheology for different types of beer
Thomas Willers, Germany

15:20

Coffee

S1. Bubbles, Drops, Interfaces
Chair: Roumen Todorov

S3. Formulations and Innovations for industrial applications
Chair: Anna Trybala

15:50

KN 3: Self-shaping droplets: from spheres to platelets with flagella
Nikolai Denkov, Bulgaria

KN 4: Novel tools for complex interfacial layers characterization considering drop profile deviation from Gauss-Laplacian shape
Aliyar Javadi, Iran

16:20

O1:8: Amphiphilic properties of hierarchical nanoporous glass layer and its functionalities
Takuya Fujima, Japan

O3:8: Upscaling the continuous manufacturing of highly uniform droplets and microcapsules to industrially meaningful quantities
Marijana Dragosavac, United Kingdom

16:40

O1:9: Droplet retention and shedding on slippery substrates
Bethany Orme, United Kingdom

O3:9: Relations between liquid drainage and dissolution kinetics of solid sodium hydroxide inside xanthan foams
Loïc Desbordes, France

17:00

O1:10: Dynamic assessment of the blood clotting and effect of fibrinogen on the clot formation
Nadia Antonova

O3:10: Brine ions impact on water-oil interfacial tension and wettability of carbonate rocks
Mohammad Mahmoudvand, Iran

17:30

Poster session I

(Bubbles, Drops, Interfaces)

19:30

End of Poster session I

Tuesday, June 25

Panorama Hall

INVITED KN 3 : INTERPLAY BETWEEN AMPHIPHILIC PEPTIDES AND NANOPARTICLES FOR SELECTIVE MEMBRANE DESTABILISATION AND ANTIMICROBIAL EFFECTS

MARTIN MALMSTEN, UNIVERSITY OF COPENHAGEN, COPENHAGEN, DENMARK

Chair: Piotr Warszynski

Panorama Hall

Esplanade Hall

S1. Bubbles, Drops, Interfaces

S3. Formulations and Innovations for industrial applications

Chair: Piotr Warszynski

Chair: Krastanka Marinova

O1:11: Adsorption of rhamnolipids at oil drop in water at low bulk concentration
Paola Brocca, Italy

O3:11: Protein stabilised emulsions and foam
Peter Wierenga, The Netherlands

O1:12: Comparison of the forces acting on single bubbles rising in non-newtonian media
Frauke Enders, Germany

O3:12: Aqueous foam as an oil absorbent – interfacial studies and dynamics
Azusa Kusaka, Japan

O1:13: On how the contact angle influences the freezing delay of surfaces
Miguel Cabrerizo-Vilchez, Spain

O3:13: Spray drying microcapsules by natural derived polymer
Mario Ammendola, Belgium

Coffee

Panorama Hall

Esplanade Hall

S3. Formulations and Innovations for industrial applications

S1. Bubbles, Drops, Interfaces

Chair: Roumen Todorov

Chair: Khristo Khristov

KN 5: Studying pulmonary surfactant with constrained drop surfactometry
Yi Y. Zuo, USA

KN 6: β -Lactoglobulin at liquid-gas Interfaces
Georgi Gochev, Germany

O3:14: Hyaluronic acid improves surface activity of polydocanol in sclerosing foam formulations
Julia Maldonado Valderrama, Spain

O1:14: Film drainage between fast colliding bubbles: I. Experiment
Bo Liu, Canada

O3:15: Red blood cell interactions in solutions containing non-ionic polymers followed by analytical photocentrifuge
Svetoslav Jovtchev, Bulgaria

O1:15: Film drainage between fast colliding bubbles: II. Theory
Rogerio Manica, Canada

Lunch

Panorama Hall

INVITED KN 4 : LA BEAUTÉ DU CHAOS: HARNESSING BÉNARD-MARANGONI INSTABILITIES FOR HIERARCHICAL SELF-ASSEMBLY IN AN EVAPORATING SESSILE DROP

WUGE BRISCOE, UNIVERSITY OF BRISTOL, BRISTOL, UK

Chair: Thodoris Karapantsios

Panorama Hall

Esplanade Hall

S2. Foams, Emulsions, Suspensions

S1. Bubbles, Drops, Interfaces

Chair: Thodoris Karapantsios

Chair: Georgi Gochev

O2:1: Attraction of two nearby sessile drops of the same pure volatile liquid
Hosein Sadafi, Belgium

O1:16: Precursor films dynamics of polymer melts
Claire Schune, France

O2:2: Mobile and immobile fluid interfaces: droplets, bubbles and cavities
Ivan Vakarelski, Saudi Arabia

O1:17: Kinetics of evaporation from interfacial adsorption layers of volatile surface-active amphiphiles
Theodor Gurkov, Bulgaria

Coffee

S2. Foams, Emulsions, Suspensions

S1. Bubbles, Drops, Interfaces

Chair: Anh Nguyen

Chair: Kamelia Kamburova

KN 7: Pressure tensor and the disjoining pressure in a liquid droplet on a core changing from molecule to nanosize
Alexander Shchekin, Russia

KN 8: Understanding the equilibration of polycation – surfactant solutions at water/vapor interfaces
Eduardo Guzmán, Spain

O2:3: Spontaneous flows during drops coalescence
Emilia Nowak, New Zealand

O1:18: New insights on foam films from infrared and Raman spectroscopy: A case study of alkyltrimethylammonium halides
Eric Weißenborn, Germany

O2:4: Predictive estimation of emulsion properties of pea legumin and vicilin blends
Maud Meijers, The Netherlands

O1:19: New photo-switchable surfactants for responsive air-water interfaces: Azo vs Arylazopyrazole amphiphiles
Marco Schnurbus, Germany

O2:5: Entrapment of fine solids by hydrodynamic boundary layer at solid wall
Ljubomir Nikolov, Bulgaria

O1:20: Droplets on deformable substrates: equilibrium and hysteresis contact angles
Nektaria Koursari, United Kingdom

Poster session II

(Foams, Emulsions, Suspensions; Formulations and Innovations for industrial applications)

End of Poster session II

Wednesday, June 26

Panorama Hall

INVITED KN 5 : NANOBUBBLES IN BIOLOGY: STRUCTURE AND FUNCTION OF THE ENDOTHELIAL SURFACE LAYER

BARRY NINHAM, AUSTRALIAN NATIONAL UNIVERSITY, CANBERRA, AUSTRALIA

Chair: Peter Kralchevsky

Panorama Hall

Esplanade Hall

S3. Formulations and Innovations for industrial applications

Chair: Peter Kralchevsky

S2. Foams, Emulsions, Suspensions

Chair: Francesca Ravera

Q3:16: Layer-by-layer nanostructures for X-ray photodynamic therapy
Davide Orsi, Italy

Q2:6: Emulsions and microemulsions with ethoxylated linear and Guerbet alcohols
Krastanka G. Marinova, Bulgaria

Q3:17: Innovative internals in bubble column reactors to manage circulation patterns
Krishnaswamy Nandakumar, USA

Q2:9: Coalescence behavior of nanoparticle stabilized liquid/liquid systems during agitation processes and phase separation
Susanne Röhl, Germany

Q3:18: Drag coefficient prediction of a particle-laden bubble rising in water
Peipei Wang, United Kingdom

Q2:8: Reactive foams: using a liquid phase and a gas phase for chemical reactions
Pierre Trinh, France

Coffee

Panorama Hall

Esplanade Hall

S2. Foams, Emulsions, Suspensions

Chair: Nikolai Denkov

S1. Bubbles, Drops, Interfaces

Chair: Reinhard Miller

KN 9: Bottom-up formation of oil-in-water nanoemulsions from homogeneous solutions of oil in supercritical water
Shigeru Deguchi, Japan

KN 10: The signature of surface dilational rheology in interface science
Hubert Motschmann, Germany

Q2:7: About measuring the distribution of drop size in a real emulsion
Luigi Cristofolini, Italy

Q1:21: Rise velocity of air bubbles in high purity water: from immobile to mobile water-air interface
Piotr Pawliszak, Australia

Q2:10: Stability and dynamics of emulsions of low surfactant content
Fabrizia Salerni, Italy

Q1:22: Surfactant effect on bubble breakup in a turbulent flow
Petr Stanovsky, Czech Republic

Lunch

Panorama Hall

INVITED KN 6 : SOME PECULIAR PROPERTIES OF DEGASSED LIQUIDS

PIERANDREA LO NOSTRO, UNIVERSITY OF FLORENCE, SESTO FIORENTINO, ITALY

Chair: Boris Noskov

Panorama Hall

Esplanade Hall

S3. Formulations and Innovations for industrial applications

Chair: Boris Noskov

S2. Foams, Emulsions, Suspensions

Chair: Shigeru Deguchi

Q3:19: H2020 Project SoFiA – Soap Film Based Artificial Photosynthesis
Indraneel Sen, Sweden

Q2:11: Charge-driven interfacial gelation of cellulose nanofibrils across the water/oil interface
Vincenzo Calabrese, United Kingdom

Q3:20: New cellulose carbamates studied by microindentation and positron annihilation lifetime spectroscopy
Galina Zamfirova, Bulgaria

Q2:12: Use of Pickering emulsions for the capsulation of active ingredients
Saule Aidarova, Kazakhstan

Free time

Gala Dinner

End of Gala Dinner

Thursday, June 27

Panorama Hall

INVITED KN 7 : OSCILLATORY STRUCTURAL FORCES AND THEIR IMPORTANCE FOR THE INTERACTIONS BETWEEN BUBBLES AND DROPS

PETER KRALCHEVSKY, SOFIA UNIVERSITY, SOFIA, BULGARIA

Chair: Pierandrea Lo Nostro

Panorama Hall

Esplanade Hall

S1. Bubbles, Drops, Interfaces

Chair: Pierandrea Lo Nostro

S2. Foams, Emulsions, Suspensions

Chair: Yi Zuo

O1:23: Coupled Marangoni convection at droplet ensembles
Karin Schwarzenberger, Germany

O2:13: Stimulus responsive capillary suspensions
Simeon Stoyanov, The Netherlands

O1:24: Contact-line fluctuations and dynamic wetting
Juan Carlos Fernandez-Toledano, Belgium

O2:14: Study on non-equilibrated colloidal dispersion systems using 3D clinostat
Yuji Yamashita, Japan

O1:25: Effect of dynamic depletion force in wetting films on the motion of a rising bubble in capillary
Krassimir Danov, Bulgaria

O2:15: Improvement of low salinity water flooding performance by fines fixation by SiO₂ nanoparticles
Peyman Pourafshary, Kazakhstan

Coffee

Panorama Hall

Esplanade Hall

S1. Bubbles, Drops, Interfaces

Chair: Krassimir Danov

S2. Foams, Emulsions, Suspensions

Chair: Eduardo Guzmán

KN 12: Molecular basis of esterquat and amidoquat surfactants surface activity
Piotr Warszynski, Poland

KN 11: van der Waals interactions in droplet attachment to hydrophilic surfaces
Marta Krasowska, Australia

O1:26: Bubble behaviour in aqueous solutions of simple alcohols
Pavlina Basarova, Czech Republic

O2:16: Surface properties and foamability of saponin and saponin-chitosan systems
Marcel Krzan, Poland

O1:27: Induced Marangoni flows causes Rayleigh–Plateau instability during drop merging
Peyman Rostami, Germany

O2:17: Spontaneous emulsification: Influence of surfactants and temperature
Ritu Toor, France

Lunch

Panorama Hall

INVITED KN 8 : DROPLET SPREADING AND SLIDING OVER SOLID SUBSTRATES UNDER CONTROLLED BODY FORCES

THODORIS KARAPANTSIOS, ARISTOTLE UNIVERSITY OF THESSALONIKI, THESSALONIKI, GREECE

Chair: Julia Maldonado-Valderrama

Panorama Hall

Esplanade Hall

S1. Bubbles, Drops, Interfaces

Chair: Julia Maldonado-Valderrama

S2. Foams, Emulsions, Suspensions

Chair: Luigi Cristofolini

O1:28: Flow boiling in a macro-channel under high heat fluxes
Margaritis Kostoglou, Greece

O2:18: Monodisperse droplet formation by spontaneous and interaction based mechanisms in partitioned EDGE microfluidic devices
Sten ten Klooster, The Netherlands

O1:29: Structural details on interfacial layers of silica nanoparticles-CTAB complexes at the water-dodecane interface from neutron reflectivity investigation
Liberio Liggieri, Italy

O2:19: Generation of micro/nano-size emulsion by a laser-assisted method
Mihai Boni, Romania

Coffee

S1. Bubbles, Drops, Interfaces

Chair: Pavlina Basarova

S1. Bubbles, Drops, Interfaces

Chair: Miguel Cabrerizo-Vilchez

KN 13: The hydrophobic force story: From nanobubbles to interfacial gas enrichment of dissolved gases
Anh Nguyen, Australia

KN 14: Controlling bubbles with electric fields
Carl Brown, United Kingdom

O1:30: Generalized line tension of water nanodroplets
Matej Kanduč, Slovenia

O1:34: A mathematical model for sessile drop spreading under liquid medium due to electrowetting
Juan S. Marin, Canada

O1:31: Hydrodynamic interactions between two fluctuating nearby bubbles
Domenica Raciti, Italy

O1:35: Oscillating hydrogen bubbles at microelectrodes
Aleksandr Bashkatov, Germany

O1:32: Structural evolution of quantum dots containing SLBs
Magdalena Wlodek, Poland

O1:36: Experimental investigation of binary liquid capillary bridges of "sandwich" type
Plamen V. Petkov, Bulgaria

O1:33: Delivering a squeaky clean in hand dishwashing
Joana Silva Pinto, United Kingdom

O1:37: Superhydrophobicity in copper based layers by heirarchical microcrystalic dendrit structures
Mohammad Mohammadzadeh, Iran

Friday, June 28

Panorama Hall

INVITED KN 9 : SOLUBLE SURFACTANT SPREADING: HOW THE AMPHIPHILICITY SETS THE MARANGONI HYDRODYNAMICS

ARNAUD SAINT JALMES, CNRS-INSTITUT DE PHYSIQUE DE RENNES, RENNES, FRANCE

Chair: Wuge Briscoe

Panorama Hall

S1. Bubbles, Drops, Interfaces

Chair: Wuge Briscoe

Esplanade Hall

S1. Bubbles, Drops, Interfaces

Chair: Ivan Minkov

01:38 A lattice-Boltzmann model of electrocapillarity
Elfego Ruiz-Gutierrez, United Kingdom

01:41: Influence of surfactants on the statics and dynamics of the wetting of oil on a solid in water
Gaelle Rondepierre, France

01:39: Evaporation of a sessile droplet of non-ideal solution
Aleksandr Mikheev, Russia

01:42: Crown rim kinematics for drop impact on wall-film
Ronan Bernard, Germany

01:40: Bulk nanobubbles in high-shear rotor-stator device
Ananda J Jadhav, United Kingdom

01:43: Surface forces of small systems
Mihail Avramov, Bulgaria

Coffee

Panorama Hall

S1. Bubbles, Drops, Interfaces

Chair: Elena Mileva

Esplanade Hall

S1. Bubbles, Drops, Interfaces

Chair: Hristina Petkova

01:44: Interactions between PAMAM dendrimers and POPE mesophases: Fundamentals of nanotoxicity
Laura J Fox, United Kingdom

01:46: Depletion of neutral polymers from the erythrocyte surface and its relation to cellular aggregation state
Svobodan Alexandrov, Bulgaria

01:45: Effect of contact angle hysteresis on the detachment of droplet on solid surfaces
Zhengyuan Luo, China

Panorama Hall

INVITED KN 10 : DROPLET ROBOTICS – EMERGING BOTTOM-UP INTELLIGENCE

STOYAN SMOUKOV, QUEEN MARY UNIVERSITY OF LONDON, LONDON, UK

Chair: Elena Mileva

Closing

Lunch

DEPARTURE